
वस्त्रादि — आटे के लिए डी. डब्ल्यू पटसन
का कपडा — विशिष्टि
(पहला पुनरीक्षण)

**Textiles — D.W. Flour Jute Cloth —
Specification**
(*First Revision*)

ICS 55.080, 59.060;67.060

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FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Jute and Jute Products Sectional Committee had been approved by the Textiles Division Council.

This standard was originally published in 1967. The first revision has been made in the light of experience gained since its publication and to incorporate the following major changes:

- a) All amendments have been incorporated;
- b) Test methods for length, width, mass, and breaking strength have been modified;
- c) Requirement and test method for oil content has been modified;
- d) References to Indian standard have been updated; and
- e) Marking and sampling clauses have been modified.

As DW-flour jute cloth is one of the items of export, this standard is intended to cover its quality control and pre-shipment inspection as well.

This standard contains **4.1, 5.2, 6.1, 7** and Note in Table 1 which call for agreement between the buyer and the seller.

All quantities and dimensions in this standard have been expressed in the metric system. However, corresponding values in the fps system have also been given within brackets, wherever necessary, for the guidance of overseas consumers.

The composition of the Committee responsible for the formulation of this standard is given in Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard***TEXTILES — DW-FLOUR JUTE CLOTH — SPECIFICATION***(First Revision)***1 SCOPE**

This standard prescribes the constructional details and other particulars of DW-flour jute cloth.

2 REFERENCES

The standards given below contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of these standards.

<i>IS No.</i>	<i>Title</i>
IS 1954 : 1990	Determination of length and width of woven fabrics — Methods (<i>second revision</i>)
IS 1963 : 1981	Methods for determination of threads per unit length in woven fabrics (<i>second revision</i>)
IS 1964 : 2001	Textiles — Methods for determination of mass per unit length and mass per unit area of fabrics (<i>second revision</i>)
IS 1969 (Part 1) : 2018/ISO 13934-1 : 2013	Textiles — Tensile properties of fabrics: Part 1 Determination of maximum force and elongation at maximum force using the strip method (<i>fourth revision</i>)
IS 2873 : 1991	Textiles — Packaging of jute products in bales — Specification (<i>second revision</i>)
IS 5476 : 2023	Terms relating to jute — Glossary (<i>second revision</i>)
IS 9113 : 2012	Textiles — Jute sacking — General requirements (<i>second revision</i>)

3 TERMINOLOGY

For the purpose of this standard, the porter shall mean the value obtained by counting in a finished DW-flour jute cloth, the number of warp threads per full gauge length of 47 mm (37/20 inch) and dividing it by the number of warp threads per split, which here is 4. For other definitions, (*see* IS 5476).

NOTE — This definition of porter, based on the Indian practice, refers to the finished fabric and has to be distinguished from *Dundee* practice, according to which porter is evaluated in terms of loom reed used in weaving the cloth.

4 GENERAL REQUIREMENTS

4.1 The DW-flour jute cloth shall be woven with jute yarn in double warp, plain weave. The cloth shall be generally of uniform construction. Its selvages should be firm and straight. The cloth shall be without stripes or shall have stripes as agreed to between the buyer and the seller.

4.2 The cloth should be generally free from weaving defects such as holes, cuts, tears, floats, crushed selvedge, spots and stains.

5 SPECIFIC REQUIREMENTS

5.1 The DW-flour jute cloth shall conform to the requirements specified in Table 1.

5.2 Length

The length of cloth in a bale shall either conform to the requirements specified in IS 2873 or shall not be less than the length as agreed to between the buyer and the seller.

5.2.1 The length of cloth in a bale shall be determined by the method prescribed in IS 1954.

5.3 Contract Regain

The contract moisture regain shall be 20 percent.

6 PACKING AND MARKING**6.1 Packing**

The DW-flour jute cloth shall be packed in bales as specified in IS 2873 or as specified in an agreement between the buyer and the seller.

Table 1 Requirements of DW-Flour Jute Cloth

(Clause 5.1)

SI No.	Characteristic	Requirement	Tolerance	Method of Test
(1)	(2)	(3)	(4)	(5)
i)	Weight per square metre (g)	539	$\begin{matrix} + 10 \\ - 7.5 \end{matrix}$ (percent)	IS 1964
ii)	Ends per dm	68	± 4	IS 1963
	(or porter)	(8)		
iii)	Picks per dm	31	± 2	IS 1963
	(or shots per inch)	(8)		
iv)	Width (cm)	71.0 (28 inch)	$\begin{matrix} + 4.0 \\ - 0.0 \end{matrix}$	IS 1954
v)	Breaking load of cloth [strip method (10 cm × 20 cm)], kg (lb), <i>Min</i>			IS 1969 (Part 1)
	a) Warpway	160 (353)	—	—
	b) Weftway	143 (315)	—	—
vi)	Moisture regain, percent, <i>Max</i>	22		IS 9113
vii)	Oil content on dry deoiled material basis, percent, <i>Max</i>	3		IS 9113

NOTE — Width of DW-flour jute cloth shall be 71.0 cm or as specified in an agreement between the buyer and the seller and for the agreed width, the tolerance shall be $\begin{matrix} + 4 \\ - 0 \end{matrix}$ cm.

6.2 Marking

The DW-flour jute cloth shall be marked as prescribed in IS 2873. Additional markings shall be made as stipulated by the buyer or as required by the regulations law in force.

6.2.1 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the product may be marked with the Standard Mark.

7 SAMPLING AND INSPECTION

Unless otherwise agreed to between the buyer and the seller, the procedure for sampling and testing and inspection shall be as given in IS 9113.

8 CRITERIA FOR CONFORMITY

The lot shall be considered as conforming to the requirements of the standard, if the following conditions are satisfied:

- a) The total of the corrected net weight of the bales under test is not less than the total contract net weight of the bales;
- b) The length of cloth in each bale under test is not less than the specified length (*see 5.2*);
- c) No bale contains more than two medium cuts and one short piece or three medium cuts;
- d) The average moisture regain percent of the cuts under test does not exceed the specified percentage (*see Table 1*);
- e) The average oil content percent of the cuts under test does not exceed the specified percentage (*see Table 1*);
- f) The average warpway and weftway breaking load values of the cuts under test are not less than the requirements specified (*see Table 1*);
- g) The average values of weight per square metre, ends per decimetre, and picks per decimetre for the cuts under test are in accordance with the requirements specified (*see Table 1*); and
- h) No measurement of the test sample is less than the specified width or more than the specified width plus tolerance (*see Table 1*).

ANNEX A

(Foreword)

COMMITTEE COMPOSITION

Jute and Jute Products Sectional Committee, TXD 03

<i>Organization</i>	<i>Representative(s)</i>
Office of Jute Commissioner, Kolkata	SHRI MOLOY CHANDAN CHAKRABORTHY, IDAS (Chairperson)
Caledonian Jute & Industries Ltd, Kolkata	SHRI PANKAJ KUMAR CHATTERJEE
CSIR - Indian Institute of Toxicology Research, Lucknow	DR V. P. SHARMA
Department of Jute & Fibre Technology Institute of Jute Technology University of Kolkata	PROF A. CHOUDHURY PROF S. K. GHOSH (Alternate)
Eskaps (India) Private Ltd, Kolkata	SHRI SATYAJIT CHAKRABORTY SHRI LABA KUMAR DAS (Alternate)
Food, Civil Supplies & Consumer Protection Department, Government of Chhattisgarh	SHRI SANTOSH KUMAR PATHAK
Food, Civil Supplies & Consumer Protection Department, Government of Punjab	SHRI GHANSHYAM THORI DR ANJUMAN BHASKER (Alternate)
Food Corporation of India, New Delhi	DR RAJESH GULIA SHRIMATI VEMULA SRIDEVI (Alternate)
Food Supplies & Consumer Welfare, Government of Orissa	SHRI SOMEN NAYAK
Gloster Limited, Kolkata	SHRI TANMOY SINGHA
Hukumchand Jute Mills, Kolkata	SHRI R. K. SRIVASTAV SHRI BIJAN SARKAR (Alternate)
ICAR - Central Research Institute for Jute and Allied Fibers (CRIJAF), Kolkata	DR GOURANGA KAR
ICAR - National Institute of Natural Fibre Engineering and Technology (NINFET), Kolkata	DR SURAJIT SENGUPTA SHRI MANIK BHOWMICK (Alternate)
Indian Jute Industries Research Association, Kolkata	SHRI PARTHA SANYAL SHRIMATI SOUMITA CHOWDHURY (Alternate)
Indian Jute Mills Association, Kolkata	SHRI S. K. CHANDRA SHRI J. K. BEHERA (Alternate I) SHRI BHUDIPTA SAHA (Alternate II)
Indian Sugar Mills Association, New Delhi	MS BHARATI BALAJI MS PRIYA CHAKRABORTHY (Alternate)
Ministry of Consumer Affairs, Food & Public Distribution, New Delhi	SHRI VISHWAJEET HALDER SHRI RAKESH KUMAR MEENA (Alternate)
Murlidhar Ratanlal Exports, Kolkata	SHRI AVIJIT DAS

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<i>Organization</i>	<i>Representative(s)</i>
National Agricultural Cooperative Marketing Federation of India Ltd (NAFED), Kolkata	SHRIMATI ANINDITA GUHA
National Jute Board, Kolkata	SHRI MAHADEB DUTTA
National Jute Manufacturers Corporation Ltd, Kolkata	SHRI I. A. MONDAL
Office of the Jute Commissioner, Kolkata	SHRI SOUMYADIPTA DATTA
SGS India, Gurgaon	SHRI SHAILESH SHARMA SHRI BHASKER SEN (<i>Alternate</i>)
The Jute Corporation of India Limited, Kolkata	SHRI KALYAN MAJUMDAR SHRI A. MAJUMDAR (<i>Alternate</i>)
West Bengal Pollution Control Board, Kolkata	SHRI SUBRATA GHOSH SHRI QAZI HASAN (<i>Alternate</i>)
BIS Directorate General	SHRI J. K. GUPTA, SCIENTIST 'E'/DIRECTOR AND HEAD (TEXTILES) [REPRESENTING DIRECTOR GENERAL (<i>Ex-officio</i>)]

Member Secretary
SHRI DHARMBEER
SCIENTIST 'D'/JOINT DIRECTOR
(TEXTILES), BIS

Bureau of Indian Standards

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